## **EAST Search History**

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S8 126	464/140	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/10/20 18:30
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S12	475	464/183	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/10/21 10:59
S13	126	464/140	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/10/21 11:00
S14	118	464/144	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/10/21 11:00
S15	456	S12 NOT (S10 S11 S13 S14)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/10/21 11:00
S16	470	464/906	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/10/21 11:33
S17	126	S16 NOT (S13 S14 S10 S11 S12 S13 S14)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/10/21 11:33
S18	93	29/898.067	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/10/21 11:40
S19	181	29/898	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/10/21 11:52
S21	1	"20030171152".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/10/22 09:18
S22	1	"6171196".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/10/22 09:18

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S26	1	(10/332166).APP.	USPAT; USOCR	OR	OFF	2008/10/22 09:39
S27	11	("1916442"   "3982840"   "4611373"   "5167584"   "5509857"   "5599234"   "5885162"   "6132316"   "6135891"   "6241615").PN. OR ("6893352").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/22 09:39
\$28	25	("2922680"   "3003831"   "3464232"   "3696638"   "3944011"   "4202184"   "4473129"   "4573947"   "5118214"   "5230658"   "5320579"   "5486053"   "5582546"   "5836825"   "5911286"   "6171196").PN. OR ("6666771").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/22 09:40
S29	21	("2949022"   "3324682"   "3447341"   "3475924"   "3935717"   "4023382"   "4231232"   "4275571"   "4968287"   "5201107"   "5221233"   "5410902"   "5580313"   "5647801"   "6120382").PN. OR ("6270419").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/22 14:18
S30	17	("3324682"   "3447341"   "3475924"   "3935717"   "4023382"   "4231232"   "4275571"   "5221233"   "5410902"   "6120382").PN. OR ("6241615").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/22 14:19

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		US-20080254903-\$ or				
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		US-20080194344-\$ or				
		US-20080167134-\$ or				
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		6497622-\$ or US- 6468164-\$ or US- 6431988-\$ or US- 6422946-\$ or US- 6299543-\$ or US- 5967900-\$ or US- 5509857-\$ or US- 5509855-\$ or US- 4995853-\$ or US- 4678453-\$ or US- 4473360-\$ or US- 7366443-\$ or US- 6488588-\$ or US- 6488588-\$ or US- 6186899-\$ or US- 5542885-\$ or US- 5334096-\$).did. or (US- 5906543-\$ or US- 5333939-\$ or US- 6333939-\$ or US- 631105-\$ or US- 6852036-\$ or US- 726360-\$ or US- 7163462-\$ or US- 6981919-\$ or US- 5486053-\$ or US- 4202184-\$).did. or (US- 3162024-\$).did. or (US- 3162024-\$).did. or (US-				
S32	1	S31 AND (deform\$4 ADJ (track groove))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/10/22 14:22
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S34	14	("4116020"   "4120176"   "4575362"   "4915672").PN. OR ("5542885").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/10/23 10:44

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536	90 90	(US-20010024976-\$ or US-20010006910-\$ or US-20080254903-\$ or US-20080248885-\$ or US-20080194344-\$ or US-20080167134-\$ or US-20070123356-\$ or US-20070123356-\$ or US-20070259724-\$ or US-20070135221-\$ or US-20040248658-\$ or US-20040248658-\$ or US-20040248658-\$ or US-20040248658-\$ or US-20040248658-\$ or US-20040248658-\$ or US-20080214316-\$ or US-20080214316-\$ or US-20080217207-\$ or US-20080217207-\$ or US-20030050125-\$ or US-20030050125-\$ or US-20030050125-\$ or US-20030171152-\$).did. or (US-6666771-\$ or US-6379255-\$ or US-6379255-\$ or US-6379255-\$ or US-6368223-\$ or US-6368223-\$ or US-6368223-\$ or US-636823-\$ or US-6379419-\$ or US-6267683-\$ or US-6270419-\$ or US-7278894-\$ or US-7278894-\$ or US-7278894-\$ or US-7278894-\$ or US-7278894-\$ or US-7235017-\$).did. or (US-7235017-\$).did. or	US-PGPUB; USPAT; USOCR		OFF	2009/05/06

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S42	32	(energy adj absorption) same fixed same joint	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/06 17:11
S43	140	(energy adj absorption) and (fixed with joint)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/06 17:12
S44	1102	(energy adj absorption) and fixed and joint	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/06 17:15
S45	298	(energy adj absorption) and fixed and joint and torque	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/06 17:16
S46	0	S45 not S44	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/06 17:16
S47	252	S45 not S43	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/06 17:16
S48	74	(energy adj absorbing) same fixed same joint	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/06 17:19
S49	1	"20020193166".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/06 17:23
S50	1	(10/070168).APP.	USPAT; USOCR	OR	OFF	2009/05/06 17:24
<b>S</b> 51	9	("3934429"   "4357810"   "5167584"   "5221233"   "6120382"   "6206785"   "6270419").PN. OR ("6796906").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/06 17:24
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S53	1	(10/332166).APP.	USPAT; USOCR	OR	OFF	2009/05/06 17:37
S54	11	("1916442"   "3982840"   "4611373"   "5167584"   "5509857"   "5599234"   "5885162"   "6132316"   "6135891"   "6241615").PN. OR ("6893352").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/06 17:37
S55	1	"10582559"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/05/07 10:21
S56	0	"101128681"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/05/07 10:23
S57	1	(11/066093).APP.	USPAT; USOCR	OR	OFF	2009/05/07 10:40
S58	10	("3782840"   "3798927"   "3858412"   "4756640"   "4946303"   "5522771"   "5674024"   "6264568"   "6315671"   "6517278").PN. OR ("7470198").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/07 10:41
S59	18	("2510362"   "2544541"   "3707852"   "4004435"   "4369979"   "4419027"   "4456269"   "4630834"   "4664393"   "4747805").PN. OR ("4946303").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/07 10:41
S60	17	("3204429"   "3370441"   "3464232"   "3541809"   "3656318").PN. OR ("4004435").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/07 10:43
S61	1	(10/433717).APP.	USPAT; USOCR	OR	OFF	2009/05/07 10:53
S62	7	("3370441"   "3633382"   "5288273"   "5599234"   "5616081"   "6709338").PN. OR ("7022022").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/07 10:53
S63	11	("3370441").PN. OR ("3633382").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/07 10:54

S64	11	("1916442"   "3664152"	US-PGPUB;	OR	OFF	2009/05/07
		"4968287"   "5221233"   "5433668"   "5593084"   "5599234"   "6261184"   "6270419"   "6848999").PN. OR ("7396284").URPN.	USPAT; USOCR		· ·	11:08
<b>S</b> 65	25	("2646669"   "2822880"   "3237429"   "3310960"   "3447341"   "3475924"   "3875762"   "5221233").PN. OR ("6261184").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/07 11:09
S66	7	("2400374"   "2562729"   "4592735"   "4981459"   "5624318").PN. OR ("6793583").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/07 11:20
S67	22	("1622425"   "2949022"   "4950206"   "5221233"   "5242329"   "5410902"   "5611733"   "5618235"   "5624318"   "5647801").PN. OR ("6234908").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/07 11:28
S68	22	("2325460"   "2875600"   "3133431"   "3447341"   "3475924"   "4019347"   "4185476"   "4608028"   "4968287"   "5067929").PN. OR ("5242329").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/07 11:30
S69	0	(10/569865).APP.	USPAT; USOCR	OR	OFF	2009/05/07 11:46
S70	0	fr2882013	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/05/07 15:54
S71	5	"2882013"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/05/07 15:54
S72	0	"4464"/\$3 and crash and joint	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/05/07 17:44
S73	79	"464"/\$3 and crash and joint	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/05/07 17:44

S74 23		"3367139"   "4511346"   "4767381"   "5334096"). "5582546").l	"4549873" "5230660" PN. OR	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/07 18:09
S75 10	111111111111111111111111111111111111111	US-2001002-  JS-20010006  JS-20080254  JS-20080242  JS-20080194  JS-20080167  JS-20070123  JS-20070123  JS-20070259  JS-20040248  JS-20040248  JS-20040248  JS-20080214  JS-20080214  JS-20080214  JS-20080217  JS-20080218  JS-20	910-\$ or 903-\$ or 885-\$ or 432-\$ or 344-\$ or 356-\$ or 724-\$ or 721-\$ or 558-\$ or 9057-\$ or 316-\$ or 316-\$ or 316-\$ or 125-\$ or 125-\$ or 106-\$ or 10	US-PGPUB; USPAT; USOCR	OR	OFF	2009/05/08

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S76	1	S75 and (ring adj groove)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/05/08 10:47
S77	95	(inner adj (hub member part)) with (ring adj groove)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/05/08 10:48
S78	217	(inner adj (hub member part)) same (ring adj groove)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/05/08 10:55
S79	122	S78 not S77	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/05/08 10:55
S80	1721	((inner) same (ring adj groove)) and joint	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/05/08 11:08
S81	347	((inner) same (ring adj groove)) and joint and torque	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2009/05/08 11:08

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 $\textbf{C:} \ \textbf{Documents} \ \textbf{AST} \ \textbf{Workspaces} \ \textbf{10582559} \ \textbf{update.} \\ \textbf{wsp}$